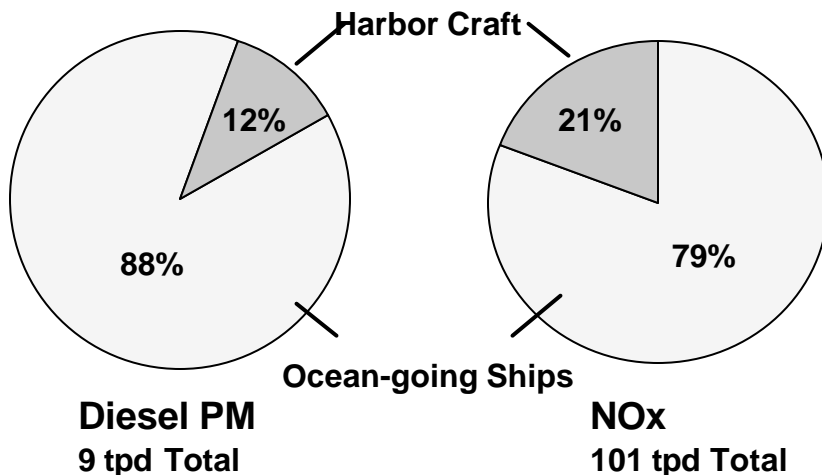


## Economic Incentive Programs for Oceangoing Ships



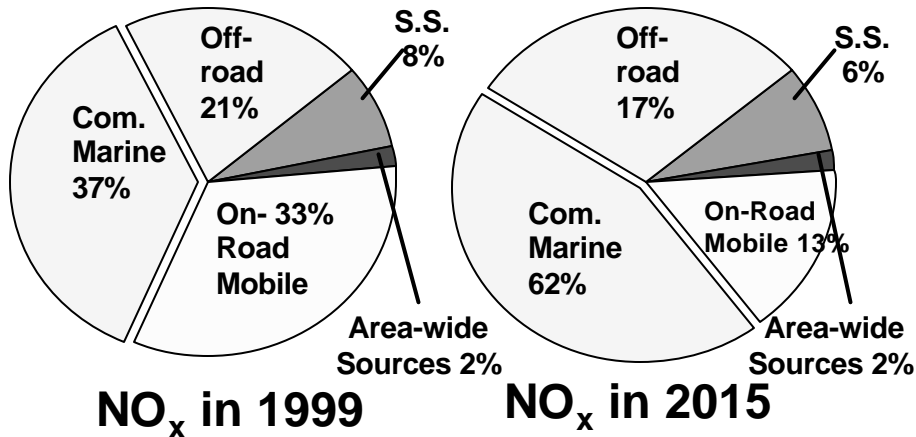
### Majority of Marine Vessel Emissions from Oceangoing Ships

2000 Statewide, Annual Average, tpd



## Commercial Marine Vessel Contribution to Santa Barbara's NO<sub>x</sub> Emissions

SBCAPCD's NO<sub>x</sub> Emissions



## Creative Solutions Necessary to Address Oceangoing Ships

- Majority of ships travel internationally
- Foreign and U.S. flagged ships need a level playing field
- Clean Air Plan identifies several options to pursue including incentives

## **Economic Incentive Programs Could Take Many Forms**

- Funding Programs
  - e.g. Carl Moyer-Type
- Differential Port Fees
  - Sweden and other European Countries
- Environmental Awards
  - Good Public Relations
- Greater Chance of Success if Extends Beyond California

## **Need to Begin Discussion on Potential Incentive Programs**

- Improve understanding of the shipping industry
- Generate possible approaches for incentive programs
- Get feedback on feasibility of different incentive concepts

## **Propose to Establish Incentives Subgroup**

- Provide forum for detailed discussion on development and design of incentive programs
- Provide feedback to Maritime Working Group
- Initial task to assist Santa Barbara APCD and U.S. EPA with demonstration project